SEQUENCE LISTING

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Zhao, Xumei

<120> COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF CERVICAL CANCER

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tatcctagaa tctgtcacca gtgagtctaa ttttcacaat tacaccttgg tctcattgaa 180
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tcgatttcca gtggctgctg tngtttgagt ttggtttgga gcaaaactga ggtagtccta 180
acatt 185

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<212> DNA
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cccttagcgt ggtcgcggcc gaggtacttt ttttttttt ttt 43

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<212> DNA
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gtctgcacat gcctttcaaa cacctgctgg tcatagtcag gagggaactg ctcgctacac 180
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caaaagcctg tnccatgccc ac 322

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<212> DNA
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<213> Homo sapiens

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aggaaatgat tttgctttcc ttaaatagtt cnaaggcttg aaaataaact ttctttttgc 180
atttctttna gaatgntngn tcattaacaa cttttaacct tatcttcctn ttctncttag 240
cccttaacag acngagtnca ttctatgntg gaaataacaa gaacttga 288

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<211> 123
<212> DNA
<213> Homo sapiens

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atg 123

<210> 8
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<212> DNA
<213> Homo sapiens

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cttggactcc atcgttaaaa ttatttatgt gtaacattca aatgtgtgca ttaaatatgc 180
ttccacagta aaatctgaaa aactgatttg tgattgaaag ctgcctttct atttacttga 240
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<213> Homo sapiens

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tgaaattcga aagctttccc aattgcactt gcatctaaac aaaactgttg cagtttttac 180
tctatttatt ttgttcccca tgtttatgaa agtcctgcac agtttcaaag gcatggtaaa 240
taatatatca atgtttatgt agtctgttac agaaacagct atagataaca ttatccagtg 300
aagagcaaaa tccaagcttt agaaaaatat tcatgcatgc aattttgaca tatcttaaaa 360
aataggt 367

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<211> 245
<212> DNA
<213> Homo sapiens

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gctgaatgaa gagtcttata aagacagcac tctgatcatg cagttactta gggacaatct 120
cactctgtgg acatcggaaa accagggaga cgaaggagac gctggggagg gagagaacta 180
atgtttctcg tgctttgtga tctgttcagt gtcactctgt acctcggccg cgaccacgct 240
aaggg 245

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<211> 302
<212> DNA

<213> Homo sapiens

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gaaatcaaga gttttggcag cccctgcttt ttttttttt ttagctccct aaagactgta 180
gcaggataaa aggatcactg gctccgagtc tctttgagat aacaagtgat gaaataaaaa 240
agaaagccca taccctcaaa taaggtcagg taaccccatt gcccaccctc cctacaaggn 300
aa 302

<210> 12
<211> 97
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 23,92
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tggtaggtgt gctcactgtc ttcttggctg anaatgt 97

<210> 13
<211> 233
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 54,86,108,114,121,150,173,183,185,196,199,207,209,215,218,232
<223> n = a,c,g, or t

<400> 13
ccctttcgag cggccgcccg ggcaggtact ttttttttt ttttttttt tttnttttt 60
ttttttttt ttttaaaaaa ctcggnttt atacaataaa atgttttnta gcanatgcct 120
nttgttttaa tatattaaaa ttttgcaaan ccctttgagc tactgcctta gtntacccac 180
tgncnttttg ttatgnggna gaggatntna tgacnccnta cacacaaacc cnt 233

<210> 14
<211> 498
<212> DNA
<213> Homo sapiens

<400> 14
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gcactcaatt ctgcaataga taaaatgacc aagaagacca gggacttgcg tagacagctc 120
cgcaaagctg tcatggacca cgtttcagat tctttcctgg aaaccaatgt tccacttttg 180
gtattgattg aagctgcaaa gaatggaaat gagaaagaag ttaaggagta tgcccaagtt 240
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caggttatta atgctgcact ggctttagca gcaaaaccac agagtaaact ggcccaagag 420
aacatggatc tttttaaaga caatgggaaa aacaagtccg tgttctcaca gatgctgtcg 480
atgacattac ttccattg 498

<210> 15
<211> 273
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 85,177,243,246
<223> n = a,c,g, or t

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agcaggagta ttggcacaga gctccacctc tgaagaacct gatgaaaact catcctntgt 180
aacatcttgt caggctatgt ctttggatgg gaagggtgaa gcagctgacc gatgaggagg 240
agngtngtat ctgtatggat gggcgggctg acc 273

<210> 16
<211> 45
<212> DNA
<213> Homo sapiens

<400> 16
cccttagcgt ggtcgcggcc gaggtacttt ttttttttt ttttt 45

<210> 17
<211> 408
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 198,336,355
<223> n = a,c,g, or t

<400> 17
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aagtccagca tggtagacat cagtggtggt aaccaaggac agaccccaag gcaaggtgaa 120
cctcaaaaat ggaacctcaa gtctatgcag tccagctgcc ctccccacca gaaagtcctt 180
gttccagccc aacatcantg cctctgagtt tgtttactag aaacaaagga agaatttcct 240
tgtaaaaata tagacagagt agtccctggc tttctcctct tgcaggaagg atggattctc 300
ccattccata ccatctttgc cccacactgg ccccangaaa tacttaattc aactntgtga 360
aaataaagat tgtttttggt tttgaggggc aaaaaaaaaa aaaaaaaa 408

<210> 18
<211> 244
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 69,105
<223> n = a,c,g, or t

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taatggggna actaattcaa caaacgggac ccttctgtgt gccanaaacc gcaagcagtt 120
gctaacccag tgggacaggc ggattggaag agcgggaagg tcctggccca gagcagtgtg 180
acacttccct ctgtgaccat gaaactctgg gtgtctgcat tgctgatggc ctggtttggt 240
gtcc 244

<210> 19
<211> 67
<212> DNA
<213> Homo sapiens

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<221> misc_feature
<222> 30
<223> n = a,c,g, or t

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ttttttt 67

<210> 20
<211> 355
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 39,212,313
<223> n = a,c,g, or t

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catatggatt atataaactg aagagcaggg gaaatactaa aatgtccatt catctgatcc 120
acatgcgtgt ggcagcccaa ggctttgttg taggagcaat gactgttggt atgggctact 180
ccatgtatcg ggaattctgg gcaaaaccta ancttagaa gaagagatgc tgtcttggtc 240
ttgttggagg agcttgcttt agttagatgt cttattatta aagttaccta ttattgttgg 300
aaaataaact aantttgtat gggtttagat ggcaaaaaaa aaaaaaaaaa aaaaa 355

<210> 21
<211> 534
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 470,471
<223> n = a,c,g, or t

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agcctatctg caccatgtct cacacgttca gttgcagctc ttccgttttg aaggcgcacg 120
tgggcaagaa gccctgggca gcacaagaaa gtcaatcacg ttgagacaga gagagcagga 180
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ggcccgctgc ccacgccttt gagtccccgc gtacctgccc gggccggccg ttcg 534

<210> 22
<211> 51
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1,18,50

<223> n = a,c,g, or t

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<210> 23
<211> 334
<212> DNA
<213> Homo sapiens

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gaactcagta gctgaacctg tctgacccgg tcacgttctt ggatcctcag aactctttgc 120
tcttgtcggg gtgggggtgg gaactcacgt ggggagcggt ggctgagaaa atgtaaggat 180
tctggaatac atattccatg ggactttcct tccctctcct gcttcctctt ttcctgctcc 240
ctaacctttc gccgaatggg gcagcaccac tgacgtttct gggcggcagt gcggctgcca 300
ggttcctgta cctcggccgc gaccacgcta aggg 334

<210> 24
<211> 51
<212> DNA
<213> Homo sapiens

<400> 24
cccttcgagc ggccgcccgg gcaggtactt ttttttttt ttttttttt t 51

<210> 25
<211> 327
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222>
99,105,134,141,143,173,183,185,188,194,199,210,223,231,237,240,247,260,264,27
4,278,283,287,297,315,322,324
<223> n = a,c,g, or t

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tgaatacaaa actnaaaggc ntnaacagtc ctgggcccaa aaaatccatg gcnggaagtc 180
aananttntg cttnagggnc ggcctgggcn gccctggaaa aantcattgc ncatganagn 240
gatgagngcc aggaaaacan catnctcctg gaantccncc tgntggncac tgttttnatc 300
caggctgccc attanccttt tnanccc 327

<210> 26
<211> 198
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 116,130,140,146,162,164,165,179
<223> n = a,c,g, or t

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ttttttttt ttttttttt ttttttttt ttttttttt ttttttttt ttttntttt 120
ttttttaan aaaaaaaaan aaaaanaaaa aaaaaaaaaa anannaaaaa aaaaaaaana 180
aaaaaaaaaa aaaaaaaa 198

<210> 27
<211> 291
<212> DNA
<213> Homo sapiens

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ttgaataatt ataagtatca gtaaaggaag tgaaagacag gattgcattt aatagataaa 120
acgtttaggc aataattgaa caaaagaatc ctggcatatt tctaacacta atggcaattt 180
acttatggta tttattttca gtagtaaaga cccagcttga atgtaaattt tgtatagtgt 240
aagtatgaag aacatagtgc aactgtacct cggccgcgac cacgctaagg g 291

<210> 28
<211> 193
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 10,13,23,26,78,98,106,117,131,143,158,163,168,179,183
<223> n = a,c,g, or t

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gctgtaactc catatgtngt atttttattc ttactaanaa gaagtnaatt tttccancaa 120
tcacatcctt naaatgatac ttngatttat tatattcnaa tcntatangt agacaatcnt 180
cantgcccac ttc 193

<210> 29
<211> 328
<212> DNA
<213> Homo sapiens

<400> 29
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aactggttga ctacaagtct tgtgctcatg actgggtcta tgaataagag gtggacacaa 300
cagcagtctc cttcagcacg gcgtggtg 328

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<211> 231
<212> DNA
<213> Homo sapiens

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caatagcaga tcctgtagta tttccagtag acatggcctt ttaatctaag ggcttaagac 120
tgattagtct tagcatttac tgtagttgga ggatggagat gctatgatgg aagcataccc 180
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<210> 31
<211> 221
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 201

<223> n = a,c,g, or t

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ggccgaacta cgcagcacac tgctccagaa aagttaaact gaaggaaaaa aagggtccac 120
atgaagtagg tctcctaatg ccacaggtta actctgttgt ttctcatgga aaattaaatt 180
cactggccgc ccaggacgtc ngtggaatcc tgatctcctg g 221

<210> 32
<211> 305
<212> DNA
<213> Homo sapiens

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tacaggacga atagctataa tgaataagca atacaatttg tatttgggat gcaattgtgt 180
tgtaaagttt caaataatca atttataaat ttgttgcttt tacttttaca aaaatattca 240
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taatt 305

<210> 33
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 67,71,83,115,193,196,252
<223> n = a,c,g, or t

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tattttngtt naatttattt aanaccacct ccttacaact tccagagaga aaatncaaaa 120
caagaaacag acttggtttc aaatgcataa ccaggtgctg gagtttaaag cattactgat 180
aacattgtta canaanaatg gcagcttact ccagggcact tcagtattcc tgaggaataa 240
acatgatttc tnttgtcctc ccgctgggat gttctcaggt gaagtcactg ctcctgc 297

<210> 34
<211> 334
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 173
<223> n = a,c,g, or t

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aattttattt cacattgata gaaaccatga aaaacattta cactttccca tgttacagca 120
caatatttca atggaatatt tcttgccata aataatatct tgctgatttg tanaagtgaa 180
ataacagttt atgttcttca aggtaaagaa aaatgacata gtaaatgatt gtttaaaatt 240
tttaaatcca gacataaaca tatggcttca ttattaacat cctgtatagt ccattactaa 300
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<210> 35
<211> 330
<212> DNA
<213> Homo sapiens

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tgtttaatgt gttgaaactc atctttttaa atcttgaaaa gccaattgtt tacttgaaac 120
ttgaaaatag catatttttc tgtttttgg ttgtttgttc atttgtatta gcacaattta 180
atgtaattcc tggtttggag gcagcaagac ctatgagcaa gaactattta cttgaccctc 240
gtttttttct cttgttcttg tgtggtctga aatctaaaac tagactttat tatgatagat 300
ttcctataag ccaatttcta ataacaaata 330

<210> 36
<211> 239
<212> DNA
<213> Homo sapiens

<400> 36
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gacgcatggc aataagtgtg caatgtgtgc tgagctgttt ttaaaagaag ctgaaaatgc 120
caagcgagag ggtgaaacta gaattcgacg aaatgctgaa aaggattttt gcaaggaata 180
tgaaaaacaa gtgagaaatg gaaggctttt ttgtacctcg gccgcgacca cgctaaggg 239

<210> 37
<211> 237
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 119
<223> n = a,c,g, or t

<400> 37
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ctgaatattt aattagggca aaacaagata tttgcatggg atgcttctta agtcatctna 120
agtagttccc cttcagttct taacatgcac tctcaaaatc aacacaccta ccccaaccca 180
atactcatcg cttcacagtc atccagtaaa gtacctcggc cgcgaccacc ctaaggg 237

<210> 38
<211> 313
<212> DNA
<213> Homo sapiens

<400> 38
cccttagcgt ggtcgcggcc gaggtacagc aatatgctgc gcttaagagt ttaagtcaat 60
cctacttgtg ttggcatcag gtcctttagg agatgtaaaa acccctcctt tcccatttgc 120
acacgtcaca aacgattcac acacagggct gggctggaca gctggccaca gagcccagca 180
agtccttcct gggagagaag agttagggct gatactgaag gtctctttca catctgggca 240
cacgtctgcc ttcaggctgt aagaatttca tttgtcgatt gttaaataaa accaggagaa 300
agcaatgcag gtc 313

<210> 39
<211> 326
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 6,20,22
<223> n = a,c,g, or t

<400> 39
cccttnccag cggccgcccn gncgggcact gattttaaaa actaataact taaaactgcc 60
acacgcaaaa aagaaaacca aagtggtcca caaaacattc tcctttcctt ctgaaggttt 120

tacgatgcat tgttatcatt aaccagtctt ttactactaa acttaaatgg ccaattgaaa 180
caaacagttc tgagaccgtt cttccaccac tgattaagag tggggtggca ggtattaggg 240
ataatattca tttagccttc tgagccttct gggcagactt ggtgaccttg ccagctccag 300
cagccttctt gtccactgct ttgatg 326

<210> 40
<211> 276
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 79,105,148,199,212,215
<223> n = a,c,g, or t

<400> 40
cccttagcgt ggtcgcggcc gaggtacttt ttttttttt ttttttttt ttttttttt 60
tttggttcct aaagcaagna actttattat cattccttta aaaanaacca aggaaaattc 120
acaacatatg tgaaacacaa acagctgngg tttaggaggt aaacaaagga ccaacatagc 180
cctgaaatgc aacagcctnt gagtgacttg anccncatgt gactggggtt ctgttaaaag 240
ggcaggctcc tccctcctag ccctgaagcc ccagga 276

<210> 41
<211> 93
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1,21,24
<223> n = a,c,g, or t

<400> 41
nttttttttt ttttttttt nttnttttt ttttttttt ttttttttt ttttttttt 60
ttttttttt ttttttttt ttttttttt ttt 93

<210> 42
<211> 111
<212> DNA
<213> Homo sapiens

<400> 42
cccttagcgt ggtcgcggcc gaggtacttt ttttttttt ttttttttt ttttatttt 60
tttatttttt ttttttttt ttttttttt ttttttttt ttttttttt t 111

<210> 43
<211> 81
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 17,35,61
<223> n = a,c,g, or t

<400> 43
cccttagcgt ggtcgcnggc cgaggtactt ttttnttttt ttttttttt ttttggtttt 60
nttttttttt ttttttttt t 81

<210> 44
<211> 333

<212> DNA
<213> Homo sapiens

<400> 44
ccctttcgag cggccgcccg ggcaggtaca acattctgct caaccccaca ggctccattc 60
cctttaccac atatttataa tatgtttggg tcactcatag gagtgaaaca ctgtcagcat 120
caatagttag cagcactttc aaaatacatt ttattgtccc gaatagaaac cttaactatt 180
caattagtcc agtaattcca aatggtctta ttacttctat acataagata tgatcttaca 240
acatttatgt agctaaatac ttaacttccc atgctttttg aggattccca aaagacttta 300
gggggttccc aagactttca gggttttttt ttt 333

<210> 45
<211> 119
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 50
<223> n = a,c,g, or t

<400> 45
cccttagcgt ggtcgcggcc gaggtacttt ttttttttnt ttttttttnn ttttttttnt 60
ttttttttnt ttttttttnt ttttttttnt ttttttttnt ttttttttnt ttttttttt 119

<210> 46
<211> 282
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 254,275,279
<223> n = a,c,g, or t

<400> 46
cccttttcgag cggccgcccg ggcaggtaca caatcttttg cctttatttc gtaaagtttt 60
atacagaaga gagaagagca tgtctttact tgaaaaactc ttgatcaaga atttgggtgg 120
gagaaaagaa agtgggttat caagggtgat ttgaaatttt ctgcagcatt aaagctggcg 180
cttaataaga ataagtaata ataaagaaat ttctaacatt caaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaanggtccc tcggccgcga ccacnctang gg 282

<210> 47
<211> 308
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 147,220,227,281
<223> n = a,c,g, or t

<400> 47
cccttagcgt ggtcgcggcc gaggtacttt ttttttttnt ttttttttnt ttacattata 60
aaagcatttt attgaacaca ttctggaggt agttagaacc aaaacaaaat ttgggattgg 120
ggtggggatt ctgttttgat gatttanatt tgggaaaact ttgggttctc gtgtcagcag 180
gggccatgct gtgggaaacc tgaaggctga tttgaagcan aatatanaac tgcggcacgg 240
gagaccaggg gctgggaatg gggctctcct gggaaccaaa naatgtggtt ctgcaattgg 300
cttggtct 308

<210> 48

<211> 207
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 107,108,120,173
<223> n = a,c,g, or t

<400> 48
cccttagcgt ggtcgcggcc gaggtacttt tatttttttt ttttttttc ttggacaacc 60
agctatcacc aggctcggta ggtttgtcgc ctctacctat aaatctnncc actattttgn 120
tacatagacg ggtgtgctct ttttactaga tcttaggtag ctcgtctggt ttnggggtc 180
ttagctttgg ctctccttgc aaagtta 207

<210> 49
<211> 150
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 15,54,87,102,104,105,109,110,130
<223> n = a,c,g, or t

<400> 49
gatggatatc tgcanaattc gcccttagcg tggtcgcggc cgaggtacgt agtntagacc 60
atatgtgttg gaggttgaga ctagtanggc taggcccacc gntnntttnn aagcggcaaa 120
gactagtatn gtaataggca caatattggc 150

<210> 50
<211> 317
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 30,34,118,178,232
<223> n = a,c,g, or t

<400> 50
cccttagcgt ggtcgcggcc gaggtacttn gtanagattg acttcctaag ctacttaaga 60
caacttgcac cactaagcaa aaaaatgtac gaaccatttg gaaaaatgaa atttagtngt 120
tccaagtttc aaagaaatgt caacatttta ttccattcaa taaagaacaa aaccaatngt 180
gtttttatta ctttcatctg aaacattcca tgttttaatc tgagccttgc anactttcat 240
ttggagtttg aacccgtttt ggttgcattt cattttgga gaacttaatt aacgtgagat 300
tggcaattga aatgcag 317

<210> 51
<211> 328
<212> DNA
<213> Homo sapiens

<400> 51
cccttagcgt ggtcgcggcc gaggtacaca ttgtattata tacaaacaag caacaacaaa 60
aagtttcatc atgtaaacaa aagaatataa attatagaca taattggaag tttcaaacag 120
tccttaaatc attgtgagct tctctaaaag gcacaggtct tggagtgtgg gcacagagcc 180
attagtcaga tgtctgggtg gtctcccata atagcaatgt atactcttaa gtgggctttt 240
tgtgaactct gtcggggtga atgagttagg cctcttaaag gaatgaaatg ctttcacatt 300
tggggcaaca agtgaaaaat actgaaag 328

<210> 52
<211> 310
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 56,69,103,151,164,175,190,208,250,289,292
<223> n = a,c,g, or t

<400> 52
cccttagcgt ggtcgcggcc gaggtacttt ttttttttt ttttttttt tttttnaaat 60
tccaaccana agctaaatac aattggaaac tggtaagcac tanttttact ccaaaggagt 120
aggatcattc aaatttactc caataaaagt ntgcaaccct taancaaagc ttttnttcat 180
ttaaaaggan aaaaaaaaaa aacctatnca gtagtctttc cttatgttca ttgcacaaaa 240
tgagttctgn ttttaaaact ttgacactca atggttaatt ttacaattna anattccaac 300
tttataacct 310

<210> 53
<211> 319
<212> DNA
<213> Homo sapiens

<400> 53
cgcccttagc atggtcgcgg ccgaggtaca gagatagatg aatggaaatg ggtaagggag 60
gtgttcattc acatccatct aactgcaaaa tacaaaagta agaagtcatt gacatgaagc 120
aacgacgacc aagacgttct cagatctaaa ggtgaatgat ctcagtcagc ctggaaatgc 180
acaaggtgga aaaataacat aaaaaagcca taagaccttg aagaacatca atgtcaaaga 240
taaattctaa ggtcccagag aaaaaagaat gggaatcaaa ttgacctcag actatacgtg 300
agaaacacgg agagccaga 319

<210> 54
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222>
16,22,27,28,50,66,76,78,85,88,91,97,99,102,106,107,117,125,156,161,163,176,19
8,221
<223> n = a,c,g, or t

<400> 54
cccttaccag cggccncccc gncaggnnct cagggccaaa gcgaggcatn cttactggct 60
tacctnctaa tggcancnta ctctnctnga ntgtatnant anccanngta aggggtnaaa 120
ggatngtaag catagaaacc actagaaagt gggctnaatg nanttcttgt ggcctnagct 180
caatgcagtt agctgaanaa ttgaaaagtt tttgtttgga nacttttata aacagaaatg 240
gaaagcagag ttttcattaa atccttttac ctttttttt cttggtaatc c 291

<210> 55
<211> 317
<212> DNA
<213> Homo sapiens

<400> 55
ccctttgagc ggccgcccgg gcaggtacaa aatgtataag attaattttc tatgttagga 60
ccatttgttt tcaccaattc catagagctc caatgtgtaa aagaagacac tgatctaact 120
cttgtgttaa atatttagta actcatttat ctggaagaaa gcaaaacaaa acaaaaatac 180
aaggaataaa aatcactggg agtgcttttc attcactgaa taatgagttt tgcaaggagc 240
acgtggatgg tgacattata tcttttacat ctttattttc tgtttctttt ttgactcctt 300

atcagtgaat ttatctt 317

<210> 56
<211> 434
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 92,111,142,347,396,405,406,407,411,414,415,416,417,418,420
<223> n = a,c,g, or t

<400> 56
cccttagcgt ggtcgcggcc cgaggtactg ccaccagatt ttttattaca tcatttgaaa 60
attagcagta tgcttaatga aaatttgttc angtataaat gagcagttaa natataaaca 120
atttatgcat gctgtgactt antctatgga tttattccaa aattgcttaa tcaccatgca 180
gtgtctgtat ttttatatat gtgttcatat atacataatg attataatac ataataagaa 240
tgaggtggta ttacattatt cctaataata gggataatgc tgtttattgt caaagaaaaa 300
agtaaaatcg ttctcttcaa ttaatggccc ttttattttg ggaccangct tttattttcc 360
ctgatattat ttctatttaa tactcttttc tctcanggaa aaaannnata naannnnntn 420
tgaaaagtcc tgcc 434

<210> 57
<211> 297
<212> DNA
<213> Homo sapiens

<400> 57
cccttagcgt ggtcgcggcc gaggtactgg aaacaaaaat aaagttttct acattatttt 60
cagccttggg ttatggtata gtttctttgt gtttgtcgta atatgcacat tgtccttcta 120
ggacctgtca ccccaccatg gagaaaagag tcttttggtt ctttttaaca taagtgatta 180
gtttaagagt atgctgagga gccactgggc ttaaagaagg atgtaaataa gacccaaata 240
catagggacc aggcgctgct ttctcatgtt cacaaaagca gtcctccacc actgaac 297

<210> 58
<211> 322
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 215,263,290,297
<223> n = a,c,g, or t

<400> 58
ccctttcgag cggccgcccg gcaggtacgc ggggatcttg ttgaagtcaa tcctcagttg 60
gccacctcag aggaagaggc gaagactaca gctaacctgg cagtagatgt gattgcttca 120
agctttggtc agacaagaga aggagggcat attgtctatg accaacttcc tactcccagt 180
tcaccagatg aatcagaaaa tcaagcacgt gtganaattt aggagacact gtgcactgac 240
atgtttcaca acaggcattc canaattatg aggcattgag gggatagatn aatactnaat 300
ggttgtctgg gtcaatactg cc 322

<210> 59
<211> 53
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1,15,33
<223> n = a,c,g, or t

<400> 59
ngagcggccg ccatntgtga tggatatctg canaattcgc ccttcgagcg gcc 53

<210> 60
<211> 54
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 38,39,40,41
<223> n = a,c,g, or t

<400> 60
cccttagcgt ggtcgcggcc gaggtacttt ttttttnnnn nttttttttt tctt 54

<210> 61
<211> 60
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 50
<223> n = a,c,g, or t

<400> 61
cccttagcgt ggtcgcggcc gaggtacttt ttttttttnt tctttggggn ttttttttnt 60

<210> 62
<211> 54
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 25
<223> n = a,c,g, or t

<400> 62
cccttagcgt ggtcgcggcc gaggnacttt ttttttttnt ttttttttnt tttt 54

<210> 63
<211> 339
<212> DNA
<213> Homo sapiens

<400> 63
ccctttcgag cggccgcccg ggcaggtaca gatcctggaa ggacaaaaga tcctggctaa 60
ctgttcttct ccctaccagg tagacctgtt tggtatagca gatttagcac atttactatt 120
gttcaaggaa cacctacagg tcttctggga tgggtccttc tggaaactta gccaaaatat 180
ttctgagcta aaagatggtg aattgtggaa taaattcttt gtgcggattc tgaatgccaa 240
tgatgaggcc acagtgtctg ttcttgggga gcttgcagca gaaatgaatg ggggtttttg 300
acactacatt ccaaaagtca ccttgaacaa aagccttat 339

<210> 64
<211> 395
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 308,337,355,357,362
<223> n = a,c,g, or t

<400> 64
ccctttcgag cggccgcccg ggcaggtacg aatttggtca ggctctcttc actggctggg 60
ctgctgcttc tctctgcctt ctgggaggtg ccctactttg ctgttcctgt ccccgaaaaa 120
caacctctta cccaacacca aggccctatc caaaacctgc accttccagc gggaaagact 180
acgtgtgaca cagaggcaaa aggagaaaat catgttgaaa caaaccgaaa atggacattg 240
agatactatc attaacatta ggaccttaga attttgggta ttggaaatct tgaagtatgg 300
gtatttcnaa aacaaacaaa caaaacaaaa aaacccntgt gttaaaaata cttcnangtg 360
cntaaacaat gggctttaaa tcttattttt ttaat 395

<210> 65
<211> 335
<212> DNA
<213> Homo sapiens

<400> 65
ccctttgagc ggccgcccgg gcaggtacgc gggcccttgg accaccttca tgttagttgg 60
gtattataaa taagagatac aaccatgaat atattatgtt tatacaaaat caatctgaac 120
acaattcata aagatttctc ttttatacct tcctcactgg ccccctccac ctgcccatag 180
tcaccaaatt ctgttttaaa tcaatgacct aagatcaaca atgaagtatt ttataaatgt 240
atttatgctg ctagactgtg ggtcaaatgt ttccattttc aaattattta gaattcttat 300
gagtttaaaa tttgtaaatt tctaaatcca atcat 335

<210> 66
<211> 330
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 302,304
<223> n = a,c,g, or t

<400> 66
ccctttcgag cggccgcccg ggcaggtact ttttttttnt ttctttttnt ttcttaatta 60
cgcattttaa atatcaatat gtgcatttgt ttttacagtt ataaattttt ttctcacctg 120
ttttagacaa cagcttgtaa tagttttgaa tccattaaga tgttgctttc aatttgaaat 180
attttgtgta tacatgtata taaaaaataa cccaatgtat gactcatctg accgatgttt 240
aagatcaata acggcttatt tttcaacatg cagttaggaa gagagggaag caaaccaacc 300
tntntacagt atctttttgc tggcttgttt 330

<210> 67
<211> 58
<212> DNA
<213> Homo sapiens

<400> 67
ccctttcgag cggccgcccg ggcaggtact ttttttttnt ttttttttnt tttttttt 58

<210> 68
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 104

<223> n = a,c,g, or t

<400> 68
cccttagcgt ggtcgcggcc gaggtacact attagtggga aagtaaatta gtatagttgc 60
tatggagaat aggatggagt ttcctcaagt aaactaatta ttgnaattac catatgattg 120
aacaatcaca tggctggata tatatctaaa agaaagaaaa tcagtatatt tgaagagata 180
cctgcactct catgtttatt gcagcactgt tcacagtagt caaaggtttt atgaagccac 240
atagccttgt tagtaagctc aagagtacct gcccgggcgg ccgctcgaaa ggg 293

<210> 69
<211> 56
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 9
<223> n = a,c,g, or t

<400> 69
cccttagcnt ggtcgcggcc gaggtacttt ttttttttt ttttttttt tacttt 56

<210> 70
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 192,252,276
<223> n = a,c,g, or t

<400> 70
cccttagcgt ggtcgcggcc gaggtactgt gggaagggga gttgggcact cttggaggac 60
tcctgctgaa ggtggtcagc ctgcctgaca atggaagaca tacttgaatg gggagcaggg 120
tatgtgcttt catatgaaaa aagagctgat gttaaaactc atttggtgag gtcaacgttg 180
tcacatacct tnacataagg gatagtatat tttgggttgc agtcaaactt gtgctcagac 240
tggtgaaact gngagtcagg cttttacatt tttaanagaa aatacagttt tttca 295

<210> 71
<211> 75
<212> DNA
<213> Homo sapiens

<400> 71
cggccgccag tgtgatggga tatctgcaga attcgccctt agcgtggtcg cggcccgagg 60
tacttttttt ttttt 75

<210> 72
<211> 356
<212> DNA
<213> Homo sapiens

<400> 72
ccctttcgag cggccgcccg ggcaggtact gaaaatctta cggagagtta aaaataatac 60
taatcctcgc ccggctgaac tggaattctt gcagttacaa agttaaaatt tcaagtaaac 120
actgtatttt tcacttttg tagacagaca cagtgcagat acaaacagct gccatatctc 180
acctcagatg aagctatgtg tcaatgctta gggaaaatga tcttagataa tttcccaatt 240
ttatagagct taaatctttg aaaacagcac taatactgct ggttgactgg ctatctacaa 300
cagcaaagtg aacataaagt tttgacgatg agaggtttcc caaagaaact aatata 356

<210> 73
<211> 57
<212> DNA
<213> Homo sapiens

<400> 73
gtgtgatgga tatcaagcag aattcgccct tgagcggccg cccgggcagg tactttt 57

<210> 74
<211> 238
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 227,230,238
<223> n = a,c,g, or t

<400> 74
cccttagcgt ggtcgcggcc gaggtacttt ttttttttt ttttttttt ttgctctgtt 60
ttataaatac atgtgttcaa acaatcttga ttaggagcat tttaatcacg aagccaacac 120
atgttactgc gtatctgttt aaaatctggt agttgcttaa tgggaccaac agcagcaata 180
gctggactcc tattataaat gtatttggta cctgcccggg cggccgntcn aaagggcn 238

<210> 75
<211> 321
<212> DNA
<213> Homo sapiens

<400> 75
ccctttcgag cggccgcccg ggcaggtacg cgggggttct gaagcggcgg ccagagaaga 60
gtcaagggca cgagcatcgg ccatgccttt cttggacatc cagaaaaggt tcggccttaa 120
catagatcga tggttgacaa tccagagtgg tgaacagccc tacaagatgg ctggtcgatg 180
ccatgctttt gaaaaagaat ggatagaatg tgcacatgga atcggttata ctcgggcaga 240
gaaagagtgc aagatagaat atgatgattt cgtagagtgt ttgcttcggc agaaaacgat 300
gagacgtgca ggtacctcgg c 321

<210> 76
<211> 43
<212> DNA
<213> Homo sapiens

<400> 76
gatatctgca gaattcgccc ttagcgtggt cgcggcccga ggt 43

<210> 77
<211> 240
<212> DNA
<213> Homo sapiens

<400> 77
ccctttgagc ggccgcccgg gcaggtacgc gggtccaatg aggagaggaa tcttctctca 60
gttgcttata aaaatgttgt aggagcccgt aggtcatctt ggagggtcgt ctcaagtatt 120
gaacaaaaga cggaaggtgc tgagaaaaaa cagcagatgg ctcgagaata cagagagaaa 180
attgagacgg agctaagaga tatctgcaat gatgtacctc ggccgcgacc acgctaaggg 240

<210> 78
<211> 326
<212> DNA
<213> Homo sapiens

<400> 78
ccctttcgag cggccgcccg ggcaggtacc atgatagaat actgcaattg tggtcagaat 60
tacagtatgc acaaagaatt aattagcatt attaaagagt cctcactaaa catttcatat 120
gatcacactg aagaactgta acattccata gagtgaagtg gttcaaattt ctcttggaat 180
ttttactttt gttggcctta ttttatgatc cttttcatat ttcttttgac ttagagtatt 240
aatacatggc caaaataatt tagttactac ctcatacaaa caatataatg gttactacac 300
atcacaggaa cttagttttg gtttaa 326

<210> 79
<211> 217
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 63,74,104,118,125,129,135,147,149,154,165,180,186,187,194,208
<223> n = a,c,g, or t

<400> 79
ccctttcgag cggccgcccg ggcaggtact ttttttttt ttttttttt ttttttccc 60
atncaactta aatnctttta ttgacaatgt tttggaacaa taancaaaca atgcttanat 120
ttttnattna aattnacttt ccacatntna taanacctta aggtnaaaaa aaataaaaan 180
aaaaannaaa tatntgagaa tccatttnat taaataa 217

<210> 80
<211> 79
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 54,63
<223> n = a,c,g, or t

<400> 80
cccttagcgt ggtcgcggcc gaggtacttt ttttttttt ttttttttt ttgnttttt 60
ttntttttt tttttttt 79

<210> 81
<211> 367
<212> DNA
<213> Homo sapiens

<400> 81
ccctttcgag cggccgcccg ggcaggtacg cgggggggt cgactgacgg taacggggca 60
gagaggctgt tcgcagagct gcggaagatg aatgccagag gacttggatc tgagctaaag 120
gacagtattc cagttactga actttcagca agtgggcctt ttgaaagtca tgatcttctt 180
cggaaaggtt tttcttgtgt gaaaaatgaa cttttgccta gtcatcccct tgaattatca 240
gaaaaaaatt tccagctcaa ccaagataaa atgaattttt ccacactgag aaacattcag 300
ggtctatttg ctccgctaaa attacagatg gaattcaagg cagtgcagca ggttcagcgt 360
cttccat 367

<210> 82
<211> 69
<212> DNA
<213> Homo sapiens

<400> 82
ccctttcgag cggccgcccg ggcaggtact ttttttttt ttttttttt ttttttttt 60
ttttttttt 69

<210> 83
<211> 145
<212> DNA
<213> Homo sapiens

<400> 83
cccttagcgt ggtcgcggcc gaggtacaaa aggccaaaaa aaaaaaaaaa gtcccaaaac 60
accaagagac aaaaggtagg aggaaagaca agaaaggaag atacaaaagg agcaggaaga 120
aacttactta gggacaagat tagca 145

<210> 84
<211> 54
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 33,47
<223> n = a,c,g, or t

<400> 84
cctctacatg catgctcgag cggccccatt gtnatggata tctgcanaat tctc 54

<210> 85
<211> 94
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 16,18,26,49,61
<223> n = a,c,g, or t

<400> 85
cccttagcgt ggtcgntntc gaggtncttt ttttttttt ttttttgnt ttttttttg 60
nttttttttt ttttttttt ttttttttt tttt 94

<210> 86
<211> 153
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 59,127,141,146,147
<223> n = a,c,g, or t

<400> 86
cccttagcgt ggtcgcggcc gaggtacttt ttttttttt ttttttttt ttttgggtnt 60
ttttttttt ttttttttt ttttttttt ttttttttt ttttttttt ttttttttt 120
ttttggnaaa aaaaaataaa nttttnnttt ttt 153

<210> 87
<211> 597
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 541
<223> n = a,c,g, or t

<400> 87
cccttagcgt ggtcgcggcc gaggtacgcg ggggaaacgg aagtgagcgg cggggtcgac 60
tgacggtaac ggggcagaga ggctgttcgc agagctgcgg aagatgaatg ccagaggact 120
tggatctgag ctaaaggaca gtattccagt tactgaactt tcagcaagtg gacctttga 180
aagtcatgat cttcttcgga aaggtttttc ttgtgtgaaa aatgaacttt tgcctagtca 240
tccccttgaa ttatcagaaa aaaatttcca gctcaaccaa gataaaatga atttttccac 300
actgagaaac attcagggtc tatttgctcc gctaaaatta cagatggaat tcaaggcagt 360
gcagcaggtt cagcgtcttc catttctttc aagctcaaat ctttcactgg atgttttgag 420
gggtaatgat gagactattg gatttgagga tattcttaat gatccatcac aaagcgaagt 480
catgggagag ccacacttga tggtggaata taaacttggt ttactgtaat aagtgtgctg 540
ntcatggaaa ccgaagggct gcatcttgtt tatagtcatc tttgtcctgc ccgggcc 597

<210> 88
<211> 558
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 500,510
<223> n = a,c,g, or t

<400> 88
cccttagcgt ggtcgcggcc gaggtacagt ttgaaatact atttttatc aagttttata 60
aaaatgcaga attttgtttt acatttttt ttttttaaa agctatgttg ttagcacaca 120
gaacacttca ttgttgtttt tgggggaagg ggcatatgtc actaatagaa tgtctccaaa 180
gctggattga tgtggagaaa acacctttcc cttctagttt tgagagactt cctcttggct 240
cccaggagga gggattccct gactttgaca cacatggcca ccttggcaca aaagccttgt 300
ggtatagaaa aacaaatttg tttttatgtc ctcttctccc tttccatctt tcagcataga 360
cttaactccc ataagcccag acatctgttg agacctgacc cctagtcatt ggttaccagt 420
gtgtcaggca atctggactt tccagtgatg ccactgagat ggcacctgtc aaaagagcag 480
tggttccatt tctagattgn ggatcttcan ataaattctg ccattttcat ttcacttcct 540
gaaagtcagg gtcggctt 558

<210> 89
<211> 256
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 143,145,146,153,156,161,165,166,167,174,175,176,198,241,246,250
<223> n = a,c,g, or t

<400> 89
ccctttcgag cggccgcccg ggcaggtact ttttttttt ttttttttt ttgttttttt 60
ttttttttt ttttttttt ttttttttt ttttttttt ttttttttt ttttttttt 120
ttttttttt ttttttttt ttncnnaaaa aanttnaaaa ntttnnnaaa accnnnaaaa 180
aaaaaaaaaa aaaaaaangg gaaaaaaaaa aaggggggga aaaaaaaaaa aaaaaaaaat 240
nggggncccn gggggg 256

<210> 90
<211> 457
<212> DNA
<213> Homo sapiens

<400> 90
cccttcgagc ggccgcccgg gcaggtacta attttgtttc tttatatagt ttgcgtttga 60
tattagtgct tgcaattgta ttaaagtcaa aagctgattt ttatggcata cacaagaatg 120
ccacttttttc ttttatttca taccaataat ttaaagattg atatgctaaa aacaatttgc 180

acagcactaa agcatgagct actttcatct aaacctgtaa aaatatgaaa gatttttata 240
ttttttcact gggaagaaat tcttcctgga tgaaattaca aatatgtgta gaatatattt 300
aataaaagac ttataaaata cctaactaca ggacttaaaa tatagattgg cgcgtagtat 360
atagaacaat attccatata aataagttta gcctttataa aaatgaagtt gcaggctgac 420
attacattct gtacctcggc cgcgaccacg ctaaggg 457

<210> 91
<211> 174
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 138
<223> n = a,c,g, or t

<400> 91
cggccgcccg ggcaggtacg cggggagcta caagtttagc aactcgggga gcagaatcac 60
ctgtgcaaaa caggactcct gcagaagtca actgtgtgag tgagataagg ctgctgccac 120
ctgttttgct agaaacanga cgacctacaa taaaaagtac cttggccgct ctag 174

<210> 92
<211> 377
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 19,27,73,298,330,341
<223> n = a,c,g, or t

<400> 92
cccttagcgt ggtcgcggnt cgaggtncct caaaacactg gaatgaaaaa tgaaaaaaca 60
gccaacaggg aanagtgtcg cacccaggag aaagttaatg caacaggacc acagttcgtg 120
agtggagtga ttgtgaagat cattagcaca gagcctctac ctggcaggaa acaagtccgg 180
gatactttgg cagcaatctc agaagttctt tatgttgatt tgctagaagg ggatacagaa 240
tgccatgcta gatttaaaac tcctgaggat gctcaagcag taataaatgc ctatacanaa 300
atttacattg aaacacttgc tggaaactcn agatcctttt ntggtgatca cgaacaaagg 360
tattggcaga agatttt 377

<210> 93
<211> 394
<212> DNA
<213> Homo sapiens

<400> 93
ccctttcgag cggccgcccg ggcaggtacg gcattctgga ataaagcaag agtgttcatt 60
cacacacaca gtagcttcaa aactgttcga tctgtttgtt cccatgtagt tttctaaaga 120
tggaaaaaaa ggactttggt catcaagact actgtggcca tattagatta ctggaacatc 180
taagcatcag tgtgtgacca tgcgaacaaa agacttcggg gagtgtctat ttttaaaaag 240
gtttatgtgt gtcgaggcag ttgtaaaaga tttactgcag aatcaagccc acttttaggc 300
ttaggaccag gttctaacta tctaaaaata ttgactgata acaaaaagtg ttctaaatgt 360
gcccgcgtac ctcggcccgc gaccacgcta aggg 394

<210> 94
<211> 488
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> 245
<223> n = a,c,g, or t

<400> 94
ccctttcgag cggcccgccc gggcaggtac gcggggaggc attgaggcag ccagcgcagg 60
ggcttctgct gagggggcag gcggagcttg aggaaaccgc agataagttt tttctctttg 120
aaagatagag attaatacaa ctacttaaaa aatatagtca ataggttact aagatattgc 180
ttagcgttaa gtttttaacg taatttttaat agcttaagat tttaagagaa aatatgaaga 240
cttanaagag tagcatgagg aaggaaaaga taaaaggttt ctaaaacatg acggaggttg 300
agatgaagct tcttcatgga gtaaaaaatg tatttaaaag aaaattggga gaagggacta 360
cagagccccg aattaatacc aatagaaggg caatgctttt agattaaaat gaaggtgact 420
taaacagctt aaagtttagt ttaaaaggtt gtaggtgatt aaaataattt gaaggcgatc 480
ttttaaaa 488

<210> 95
<211> 224
<212> DNA
<213> Homo sapiens

<400> 95
atggatatct gcagaattcg ccctttcgag cggccgcccg ggcaggtacg ctgcttggac 60
ttatttttcta atgcagccca ctgggcttca aaaggatcca ctgggcaggt gcctgtagga 120
acctctgtat gcctgtctgc tgaggccaac ctgccatcat ctacaccatt gaaagctgca 180
gaaccgttga ggtgctgagc aggaggctta aagaaggggc tggt 224

<210> 96
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 14,20,52,60,61,110,197,209,211,212
<223> n = a,c,g, or t

<400> 96
agcggccgcc cggncaggtn catactattc tgcacttttc caccaaaagc antggtgtgn 60
natgcttgtt atataaaaaa agttatatcc tgtggcagga aaaacccttn ctctttcact 120
tttactaaac aactggagaa aatgttcaag tctgtataaa gttgcctata agctggaaag 180
tgaacttgtt caatctncat ttacatttna nngcattttt tgacaattgt cacattttta 240
acaaaagtaa gaaaatgcat atagcactaa agagtgtttc atcaaatgct taagggat 298

<210> 97
<211> 271
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 16,204,237
<223> n = a,c,g, or t

<400> 97
cgaccacgcg tccgcncaac ccaccaacgc cacgctcagc accttcattg aggacctgaa 60
gaagtacggg gctaccactg tggtgcgtgt gtgtgaagtg acctatgaca aaacgccgct 120
ggagaaggat ggcatcaccg ttgtggactg gccgtttgac gatggggcgc ccccgcccgg 180
caaggtagtg gaagactggc tgancctggt gaaggccaag ttctgtgagg cccccgncag 240
ctgcgtggct gtgcactgcg tggcgggcct g 271

<210> 98
<211> 109

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 50,83,92
<223> n = a,c,g, or t

<400> 98
tcgccccgcg tccggacccc aaacttaaac atactgagaa tctttcagcn cgccctggag 60
ggagggccag cgtggacacc aangaggctg anggcgcccc ccaggtgga 109

<210> 99
<211> 615
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 470,563,591,610
<223> n = a,c,g, or t

<400> 99
cgccccgcgt ccgttctttt gtctatttgc tgttgattgt accaagggat ggaagaagta 60
aatatagctc aggtagcact ttatactcag gcagatctca gccctctact gagtccctta 120
gccaagcagt ttctttcaaa gaagccagca ggcgaaaagc agggactgcc actgcatttc 180
atatcacact gttaaaagtt gtgttttgaa attttatgtt tagttgcaca aattgggcca 240
aagaaacatt gccttgagga agatatgatt ggaaaatcaa gagtgtagaa gaataaatac 300
tgttttactg tccaaagaca tgtttatagt gctctgtaaa tgttcctttc ctttgtagtc 360
tctggcaaga tgctttagga agataaaagt ttgaggagaa caaacaggaa ttctgaatta 420
agcacaagag ttgaagttta tacccgttca catgcttttc aagaatgtcn caattactaa 480
gaagcagata atggtgtttt tttagaaacc taattgaagt atattcaacc caaatacttt 540
aatgtataaa ataaaatatt atnccaatat accttgtatg caagtttctg ntttacattt 600
tgatttttn caaat 615

<210> 100
<211> 471
<212> DNA
<213> Homo sapiens

<400> 100
ccctttcgag cggccgcccg ggcaggtaca tactattctg cacttttcca ccaaaagcag 60
tggtgtgtta tgcttgttat ataaaaaaag ttatatcctg tggcaggaaa aacccttttct 120
ctttcacttt tactaaacaa ctggagaaaa tgttcaagtc tgtataaagt tgcctataag 180
ctggaaagtg aacttgttca atctccattt acattttagt gcatttttg acaattgtca 240
catttttaac aaaagtaaga aaatgcatat agcactaaag agtgtttcat caaatgctta 300
agggattaaa aaatatggag cagagaacaa aatcattgtg aatggatgaa ctgttgtaaa 360
atgaaaaaag tccaggcaaa gttgttacaa gtcttttgtc actttgatga gtcacagaaa 420
atgaactttg gatacctgtc cactttaagg gtttttttcct taatcttttg c 471

<210> 101
<211> 334
<212> DNA
<213> Homo sapiens

<400> 101
ccctttcgag cggccgcccg ggcaggtacg cgggggact atattctgga gtctatgcct 60
catacccaca ttcagtggtt tagcattatg aattccctgg tcattgttct cttcttatct 120
ggaatggtag ctatgattat gttacggaca ctgcacaaag atattgctag atataatcag 180
atggactcta cggaagatgc ccaggaagaa tttggctgga aacttgttca tggtgatatg 240
ttccgtcctc caagaaaagg gatgctgcta tcagtctttc taggatccgg gacacagatt 300

ttaattatga cctttgtgac tctatttttc gctt 334

<210> 102
<211> 348
<212> DNA
<213> Homo sapiens

<400> 102
ccctttcgag cggccgcccg ggcaggtacg cagggatcat aggctgtttt aagttagaaa 60
actgaatagc aacactgaat actgtagaaa tgcactttgc tcagtaatac ttgagttgtt 120
gcaatatttg attatccatt tggttgttac agaaaaattc ttaactgtaa ttgatggttg 180
ttgccgtaat agtatattgc ctgtatttct acctctagta atgggcttta tgtgctagat 240
tttaatatcc ttgagcctgg gcaagtgcac aagtcttttt aaaagaaaca tggtttactt 300
gcacaaaact gatcagtttt gagagatcgt taatgccctt gaagtggt 348

<210> 103
<211> 329
<212> DNA
<213> Homo sapiens

<400> 103
cccttagcgt ggtcgcggcc gaggtactgc cagattcgtc taaatgtctg tcatgtccag 60
atttactttg cttctgttac tgccagagtt actagagata tcataatagg ataagaagac 120
cctcatatga cctgcacagc tcattttcct tctgaaagaa actactacct aggagaatct 180
aagctatagc agggatgatt tatgcaaatt tgaactagct tctttgttca caattcagtt 240
cctcccaacc aaccagcctt cacttcaaga gggccacact gcaacctcag cttaacatga 300
ataacaaaga ctggctcagg agcagggct 329

<210> 104
<211> 350
<212> DNA
<213> Homo sapiens

<400> 104
cccttagcgt ggtcgcggcc gaggtacaaa tgtcaaagag aagtattatt gcatctagta 60
aacctaagac acagagacac ggatatacta tactccagaa aatcacaata tctacctcaa 120
aggtgactag aagaaagacc aagggtattt attaaaaaac atttttcttt aatctggaat 180
tgtcacatgt tccagagaag agagggagaa cccaaaccca caggcctgcc acctatcagc 240
taagaggcat ctgtgcagat ctttatcata atactttcct caggttattt ccaaatccaa 300
tttaatggat attcaactga cactcaagag tcagctttaa aaggactata 350

<210> 105
<211> 336
<212> DNA
<213> Homo sapiens

<400> 105
cccttagcgt ggtcgcggcc gaggtactaa gaagaacatg aaactgtttc cgtctcaatt 60
ccagcttatc ttcaacactt tctttaatgt gtgaaagatg ctctaattct tttcccagag 120
cctctagttc ctttaatgtc tcatgcctgt ctggatggtg ctgaatcact tttgccaaag 180
catcatattc ttggcgattt tttcgtattc gttttgcttg aagaatttgc tttttgcact 240
cagcaatttt ttcatgtgct ccagctatgc tacattctat ttccttgtaa attttttcat 300
aattttccat ttctctgaga ttcatatcat atacta 336

<210> 106
<211> 265
<212> DNA
<213> Homo sapiens

<400> 106
cccttagcgt ggtcgcggcg aggtacccaa cactacgttg aagtattctt ttatccctgc 60

cacaacttca ttaaccgcat actccttatt atctgtgttt ccacgagatt tcttgtaatt 120
tgcataatcc tcaagaatgg aatccacatt cttcttggca ggaagataaa agagctgttt 180
ttgcctggta attaagtccc agtcatcaac aagccacggt tttagctctt ccccgcgtac 240
ctgcccgggc ggccgctcga aaggg 265

<210> 107
<211> 331
<212> DNA
<213> Homo sapiens

<400> 107
ccctttcgag cggccgcccg ggcaggtaca aattgagctc tctattcata acctcaatgt 60
atgtattcct gctcattaat atactttgca ccagcaaaag cgatttccaa catatgtgtt 120
ttggaggtaa ttaagtaact ctgtataaaa ataaatgcac ttttccctcc tttccccagt 180
gaatggaaaa cttccatact ttcaaaataa taataaaaaa aataattttt aagagcaaca 240
gccctcaact ctttgctggt gcctgccata ctgcctttct tcactccatt cttagctctg 300
ctagtttctt cttgtatgtc atgataaaaa g 331

<210> 108
<211> 310
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 30,46,188,191,193,204,205,207,247,248
<223> n = a,c,g, or t

<400> 108
cccttagcgt ggtcgcggcc gaggtacctn cctttgccaa gccatnctgg atgaaaccaa 60
aggagattat gagaaaatcc tggtggctct ttgtggagga aactaaacat tcccttgatg 120
gtctcaagct atgatcagaa gactttaatt atatattttc atcctataag cttaaatagg 180
aaagtttntt nancaggatt gcanngnagc tacctacatg ctgaaaaata tagcctttaa 240
atcattnnta tattataact ctgtataata gagataagtc catttttaa aaatgttttc 300
cccaaaccat 310

<210> 109
<211> 330
<212> DNA
<213> Homo sapiens

<400> 109
ccctttcgag cggccgcccg ggcaggtacc tcttggaaaa cctcaatgca agatagtgtt 60
tcagtgctgg catattttgg aattctgcac attcatggag tgcaataata ctgtatagct 120
ttccccacct cccacaaaat cacccagtta atgtgtgtgt gtgtttttt tttaaggtaa 180
acattactac ttgtaacttt ttttcttagt catatttgaa aaagtagaaa attgagttac 240
aatttgattt tttttccaaa gatgtctgtt aaatctgttg tgcttttata tgaatatttg 300
ttttttatag tttaaaattg atcctttggg 330

<210> 110
<211> 92
<212> DNA
<213> Homo sapiens

<400> 110
cccttagcgt ggtcgcggcc gaggtacttt ttttttttt ttttttttt ttttttttt 60
ttttttttt ttttttttt ttttttttt tt 92

<210> 111
<211> 90
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> 10,18,19,22,25
<223> n = a,c,g, or t

<400> 111
cccttagcgn ggtcgccnnc gnagnacctt ttttttttt ttttttttt ttttttttt 60
ttttttttt ttttttttt ttttttttt 90

<210> 112
<211> 530
<212> DNA
<213> Homo sapiens

<400> 112
cccttagcgg ccgcccgggc aggtacaatg gtcttccaca ctagagacaa aggcaatgag 60
gtgaacgcag aacggatgaa gctcttacac caagtgtcac gagtctggag aacagatggg 120
ttgagtagtt gttcttataa attagtatct gtggaacaca atcctttata tatcaacatc 180
acagcggatt tctggtttgg tgcatgaccc tggatctttt ggtgatgttt ggaagaactg 240
attctttgtt tgcaataatt ttggcctaga gacttcaaat agtagcacac attaagaacc 300
tgttacagct cattgttgag ctgaattttc ccttttgta ttttcttagc agagctcctg 360
gtgatgtaga gtataaaaca gttgtaacaa gacagctttc ttagtcattt tgatcatgag 420
ggttaaatat tgtaatatgg atacttgaag gactttatat aaaaggatga ctcaaaggat 480
aaaatgaacg ctatttgagg actctggttg aaggagattt atttaaattt 530

<210> 113
<211> 160
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 55
<223> n = a,c,g, or t

<400> 113
attcgccctt agcgtggtcg cggccgaggt acttttttt ttttttttt ttttnggttt 60
ttttttttt ttttttttt ttttttttt ttttttttt ttttttttt ttttttttt 120
ttttttttt ttttttttt ttttttttt ttttttttt 160

<210> 114
<211> 639
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 588,619,621
<223> n = a,c,g, or t

<400> 114
cccttcgagc ggccgcccgg gcaggtacta atgtaatcac tgaaaccttt tcttgaaata 60
agggaagcag ccaaactttg attaaagttg caagttctgg ggacttgcgg gggttgtcat 120
aaactgtaac agtgggtttt ggttcagcat gtaaatgcaa ctttgatttt cttgaggacc 180
gattgacctg tcatgtccct gtatcctcat gctcatcatc tcagcaggcc tgagaggctg 240
ggtcagtttg ggtgttcatc atgaggattg cttctgccat ggagctgatg gacgtgggca 300
ggttgctgag aaggtggggt gaaagtgagt gccgggggtg ggtgagtgcc ctggtcttgt 360
tcatagggga gcctttccct agcagtggaa cgctgtggtc attttctcta gcatattccc 420
ttgggaagtc tagatttgct attaatctgg ctgagaatct aagttctgtg ccttagagac 480

agtttgcact ttcccatatt gtgcctggga cagccatatg attttttttc ccaccaaaca 540
agtatgcaaa cagaaaccag ttcaaagggg gatggagtaa aagatgangc agtagaaatg 600
cctttgaatg gttttctgna nctaattctc tttaaattt 639

<210> 115
<211> 491
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 125,250
<223> n = a,c,g, or t

<400> 115
cccttagcgt ggtcgcggcc gaggtacttt ttttttttt ttttttttt tggcagctaa 60
agatatacag attactgtta aattgcagtc ctttttttt aaagatattt tcttgagtta 120
tttanaacat ggtaagcctg gtatttttta atcaaacaaa atatttatga aatgggtttt 180
ctcttaattc tggattcatc atggctttct aataccaatt gtaatattta caatattcac 240
caaaacttan aattttgcaa atgctggaat tctgccagtg tttctttgct aagccttgca 300
tgcaaaattt gaaattttaa cattggcacc caaaacctac atggaatgta tgtctggagt 360
atttcaaact ttacattgaa acataatttc cttggaaaac aaaccataag cctgaggagg 420
tttttatcaa ctggaatgct ttatattagt ttgtttttca ctgtacctgc ccgggcggcc 480
gctcgaaagg g 491

<210> 116
<211> 85
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 58
<223> n = a,c,g, or t

<400> 116
cccttagcgt ggtcgcggcc gaggtacttt ttttttttt ttttttttt ttttttnat 60
ttttttttt ttttttttt ttttt 85

<210> 117
<211> 327
<212> DNA
<213> Homo sapiens

<400> 117
cccttcgagc ggccgcccgg gcaggtacac aggaggcaaa gtgtttcaca tcatagactt 60
cacttccaac tccttggaat gttcatttct ttggcttaca ggagagacta gacaggaagg 120
ccaggcaatg cttaggcaac taaaatgagg ttgggggtaa tgctaacgtc accctcacag 180
ggatggccac ggggactgtt attcgcaagc tggttttcta gacctgttag ctggaagcat 240
ggtgagcacc atttctggac gctcaggccg tgtcgggctt cagtcatctc caccacacag 300
gtacctcggc cgcgaccacg ctaaggg 327

<210> 118
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 169,198
<223> n = a,c,g, or t

<400> 118
cccttagcgt ggtcgcggcc gaggtacttt ttttttttt ttttttttt ttttggctac 60
attttacttt attttgttgt aaggaaaacc aattgactaa gttgtcccca aaatgttagt 120
gttcactgat caagagggaa atgaggtcag aaggcaaact tttcacttnt tctcaaacat 180
aaattgcaag tatcacanaa aattgtaaca acacatgcaa cacgggatgg ctttcaacac 240
acagagagcc taagcaagaa gagtgagtac ctgcccgggc ggccgctcga aaggg 295

<210> 119
<211> 569
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 533
<223> n = a,c,g, or t

<400> 119
cccttagcgt ggtcgcggcc gaggtaccaa aggcgacagc tgcccattcc gtcactgtga 60
agctgcaata ggaaatgaaa ctgtttgcac attatggcaa gaagggcgct gttttcgaca 120
ggtgtgcagg tttcggcaca tggagattga taaaaaacgc agtgaaattc cttgttattg 180
ggaaaatcag ccaacaggat gtcaaaaatt aaactgcgct ttccatcaca atagaggacg 240
atatgttgat ggccttttcc tacctccgag caaaactgtg ttgcccactg tgcctgagtc 300
accagaagag gaagtgaagg ctagccaact ttcagttcag cagaacaaat tgtctgtcca 360
gtccaatcct tcccctcagc tgcggagcgt tatgaaagta gaaagttccg aaaatgttcc 420
tagccccacg catccaccag ttgtaattaa tgctgcagat gatgatgaag atgatgatga 480
tcagttttct gaggaaggtg atgaaaccaa aacacctacc ctgcaaccaa ctnctgaagt 540
tcacaatgga ttacgagtga cttctgtcc 569

<210> 120
<211> 617
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 557
<223> n = a,c,g, or t

<400> 120
cccttagcgt ggtcgcggcc gaggtaccaa aaagaagaaa ccaatgggga cgagttggca 60
acggaatctg aagtgctcta gctgcaaggt agatgcaagc acatgctata gtctctggtt 120
gaaatcgaac aaacacattg gttcgaagac tgtcattcat gtaattcctg aaaaatattt 180
caactataag cttgcatgta aacaaaccag ttcttctgaa gcttacataa aattggagac 240
tcaatctact ttattctttt ttcttctctt atttatattc acatcctcat attctagcat 300
ataacaactc ttaactcaaa aaaatcagta agcaataaga atttaatact aggaccatat 360
gcgattttcc tatatatgag cgaagccctt ttaaattatt tcatattaca atccaaacta 420
gaaattactc ctaaaaagtt aatatatttc tgtaaaaagc aatgcttttc aaagtcattc 480
tgacacgatt agtttcagaa atgataaacc actccaataa tacttcaagc cattaattac 540
tgaccatctc tcctttntca caataaaagc agtgtcaacc aagttctttt caaaagctca 600
aaataccgtt aacaggg 617

<210> 121
<211> 409
<212> DNA
<213> Homo sapiens

<400> 121
ccctttcgag cggccgcccg ggcaggtaca gagccctgtt atttttctct ttggccctat 60
ttggctgctt ttattaatgc atcagaactt tatgtataat catatggatt tatacgtaaa 120

ttaagaaaaa atgtccattt cattcagttc atatgttcta aacgtattgc tgatcattct 180
taaatgagac tccaggttta cattcttaca taaagtgcag ggatcccgaa gttagcccca 240
aagatcccct tgccttttc agacttgctc aaatgttacc ttatcagtgg ggcctttcct 300
gaccacactt taaaaacctc aacacccacc catgggcctt gtcctccttc ccggcttcat 360
tttttggcat atacttatca aatgtgaaca tatgatgcat ttgctttat 409

<210> 122
<211> 124
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 33,64,65,80,91,93,100,109,115,120
<223> n = a,c,g, or t

<400> 122
ccctttcgag cggccgcccg ggcaggtact ttnttttttt ttttttttnt ttttttttta 60
aaanncaaaa ttaaattttn tttcacattg ntngaaaccn tgaaaaacnt ttacnctttn 120
ccat 124

<210> 123
<211> 342
<212> DNA
<213> Homo sapiens

<400> 123
cccttgagcg gccgcccggg caggtacgcg ggggcttcta gtttgcggtt caggtttggc 60
cgctgccggc cagcgtcctc tggccatgga caccccggaa aatgtccttc agatgcttga 120
agcccacatg cagagctaca agggcaatga ccctcttggt gaatgggaaa gatacataca 180
gtgggtagaa gagaattttc ctgagaataa agaatacttg ataactttac tagaacattt 240
aatgaaggaa tttttagata agaagaaata ccacaatgac ccaagattca tcagttattg 300
tttaaaattt gctgagtacc tcggccgcga ccacgctaag gg 342

<210> 124
<211> 83
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 80
<223> n = a,c,g, or t

<400> 124
ccctttcgag cggccgcccg ggcaggtact ttttttttnt ttttttttnt ttttttttnt 60
ttttttttnt ttttttttnn ttt 83

<210> 125
<211> 346
<212> DNA
<213> Homo sapiens

<400> 125
cccttccgag cggccgcccg ggcaggtacg cgggggggata ctactaggga aagcagaaga 60
tctgaatcac tgtccccaag aagagaagct tctagagaga acaaaagatc tcagccaaga 120
gtgaaagatt cttccccagg agaaaaatcc aggtcccaga gcagagaacg agaaagtgat 180
agagatgggc agaggagaga gagagaaagg agaaccagaa agtggtctag gtccagatct 240
cattctaggt ccccctcaag atgtagaaca aaaagtaaga gttcatcatt tggtagaatt 300
gacagagata gttactctcc ccggtggaag ggaagatggg caaatg 346

<210> 126
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 126
tccggcgcgc cgttttccca gtcacga 27